

What is claimed is:

Claim 1. A method for controlling unwanted cyanobacteria algae, mosses, liverworts, hornworts and other bryophytes, which comprises applying an effective amount of a protoporphyrinogen oxidase enzyme-inhibiting herbicide, its agriculturally-acceptable salts, esters, acids, and metabolites to a locus where said cyanobacteria algae, mosses, liverworts, hornworts and other bryophytes are growing.

Claim 2. The method of claim 1, wherein said mosses are selected from the group consisting of *Antitrichia californica*, *Bryum argenteum*, *Barbula vinealis*, *Dendroalsia abietina*, *Dicranoweisia cirrhata*, *Didymodon*, *Homalothecium fulgescens*, *Hoalothecium nutallii*, *Metaneckera menziesii*, *Neckera douglasii*, *Peterogonium graile*, *Scleropodium cespitans*, *Tortula laevipila* var. *laevipila*, *Tortula laevipila* var. *meridionalis*, *Tortula latifolia*, *Tortula ruralis* and *Zygodon viridissimus*.

Claim 3. The method of claim 1, wherein said mosses are *Bryum argenteum*.

Claim 4. The method of claim 1, wherein said liverworts are selected from the group consisting of *Marcheantia*, *Conocephalum*, *Proella roellii* and *Porella navicularis*.

Claim 5. The method of claim 1, wherein said protoporphyrinogen oxidase enzyme-inhibiting herbicide is selected from the group consisting of acifluorfen-sodium, aclonifen, bifenox, chlomethoxyfen, chlornitrofen, ethoxyfen-ethyl, fluorodifen, fluoroglycofen-ethyl, fluoronitrofen, fomesafen, furyloxyfen, halosafen, lactofen, nitrofen, nitrofluorfen, oxyfluorfen, cinidon-ethyl, flumiclorac-pentyl, flumioxazin, profluazol, pyrazogyl, oxadiargyl, oxadiazon, pentoxazone, fluazolate, pyraflufen-ethyl, benzfendizone, butafenacil, fluthiacet-methyl, thidiazimin, azafenidin, carfentrazone ethyl, sulfentrazone, flufenpyr-ethyl, their agriculturally-acceptable salts, esters, acids, and metabolites.

Claim 6. The method of claim 5, wherein said protoporphyrinogen oxidase enzyme-inhibiting herbicide is selected from the group consisting of carfentrazone ethyl and metabolites of carfentrazone ethyl, wherein said metabolites are selected from **i)** α ,2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoic acid, **ii)** 2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropenoic acid, **iii)** 2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzoic acid, and **iv)** 2-chloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoic acid.

Claim 7. The method of claim 6, wherein said protoporphyrinogen oxidase enzyme-inhibiting herbicide is carfentrazone ethyl.

Claim 8. The method of claim 7, wherein said carfentrazone ethyl is in a 1.9 EW formulation and used at a rate of from about 3.4 fluid ounces per acre to about 13.4 fluid ounces per acre.

Claim 9. The method of claim 8, wherein said rate is about 6.7 fluid ounces per acre.

Claim 10. The method of claim 1, wherein said locus is selected from the group consisting of lawns, gardens, trees, shrubs, golf courses, rooftops, decks and concrete structures.

Claim 11. The method of claim 1, wherein said protoporphyrinogen oxidase enzyme-inhibiting herbicide is combined with a second herbicide.

Claim 12. The method of claim 11, wherein said second herbicide is selected from the group consisting of amines, esters, and salts of 2,4-D, dichloprop, dicamba, mecoprop, 2-methyl-4-chlorophenoxyacetic acid and various combinations of these products and atrazine, clopyralid, foransulfuron, glufosinate, glyphosate, halosulfuron-methyl, imazaquin, metsulfuron, quinclorac and triclopyr.

Claim 13. The method of claim 11, wherein said protoporphyrinogen oxidase enzyme-inhibiting herbicide is carfentrazone ethyl.

Claim 14. The method of claim 1, wherein said protoporphyrinogen oxidase enzyme-inhibiting herbicide is combined with a dispersing agent.

Claim 15. The method of claim 14, wherein said dispersing agent is X-77 Spreader present in a concentration of about 0.25% volume/volume.

Claim 16. A composition suitable for controlling unwanted cyanobacteria algae, mosses, liverworts, hornworts and other bryophytes comprising an effective amount of a protoporphyrinogen oxidase enzyme-inhibiting herbicide, their agriculturally-acceptable salts, esters, acids, and metabolites.